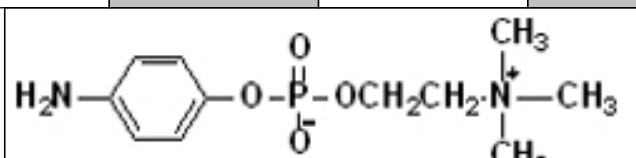


<b>Certificate of Analysis</b> (C of A)			
<b>Name:</b>	<b>APPC</b> 4-Aminophenyl phosphorylcholine		
<b>Catalog Number:</b>	6117	<b>Lot:</b>	52273
<b>CAS Number:</b>	102185-28-4	<b>Formula:</b>	C <sub>11</sub> H <sub>19</sub> N <sub>2</sub> O <sub>4</sub> P
<b>Molecular Weight:</b>	274.26 (g/mol)		
	<b>Observed</b>	<b>Standard</b>	
<b>HPLC Purity:</b>	99% at 254 nm	≥ 95% at 254 nm	
<b>NMR (D<sub>2</sub>O)</b>			
<b>Result:</b>	Meets specification	Consistent with structure	
<b>Nuclei:</b>	<sup>1</sup> H	<sup>1</sup> H	
<b>Absorption (Methanol)</b>			
<b>Wavelength (λ<sub>max</sub>):</b>	294 nm	293 ± 3 nm	
<b>Extinction:</b>	1,700 cm <sup>-1</sup> M <sup>-1</sup>	1,700 ± 150 cm <sup>-1</sup> M <sup>-1</sup>	
<b>TLC Purity:</b>	> 99%	≥ 95%	
<b>TLC System:</b>	60:40 Acetonitrile / Water with Ninhydrin Dip		
<b>Storage:</b>	Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)		
<b>Production Lot:</b>	14953	<b>Release:</b>	09-Jun-2015
		<b>Expiration:</b>	09-Jun-2025
<b>Structure:</b>			

This data reflects the accuracy of the analysis of the subject lot  
 For research use only. Not for human use. No animal source.  
 This material is chemically synthesized and manufactured in the USA

**Approved by:** Dianna M Wineinger  
 Analytical Services Manager

**Date:** 09-Jun-2015

**Signature:** 